

Increasing the fatigue strength ... Z/032/63/013/001/002/004
E193/E135

produced by localized heating, produce a similar result.
Considerable pressure is required to force the tube over the
mandrel (or the rod through the die) necessitating a powerful
press, but better control of the internal stresses is achieved.
There are 9 figures and 2 tables.

ASSOCIATION: Slovenská vysoká škola technická, Bratislava
(Slovak Technical High School, Bratislava)

Card 3/3

PUCHNER, O., prof., inz., dr., Dr.Sc.

"Creep strength of metallic materials" by F.K.G. Odqvist
and J. Hult. Reviewed by O. Puchner. Stroj cas 14 no.1:
90 '63.

PUCHNER, O., prof., inz., dr., Dr.Sc.

"Rigidity and strength of steel parts" by Jaroslav Nemec.
Reviewed by O. Puchner. Stroj cas 13 no.5:487-488 '62.

PUCHNER, Ondrej, prof., inz., dr., Dr.Sc.

Fatigue failures due to compression stress. Zvaranie
11 no.4:103-106 Ap '62.

1. Slovenska vysoka skola technicka, Bratislava.

PUCHNER, O.

Fatigue strength of fastened and fusion-welded screw bolts. p. 195.

ZVARANIE. (Ministerstvo hutneho prumyslu a rudnych bani a Ministerstvo strojarenstva)
Bratislava, Czechoslovakia. Vol. 8, no. 7, July 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, no. 10, Oct. 1959. Uncl.

HUCHE, C.

Strength of angular welded joints of automobile frames. P. 277.

SC: East European Accessions List, Vol. 3, No. 9, Sept. 1954, Lib. of Congress

PUCHNER, O., NEMEC, J.

"A More Perfect Design Through Analysis of Mechanical Defects in Operation." p. 809
(STROJIRENSTVI, Vol. 3, No. 11, Nov. 1953) Praha, Czechoslovakia

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4,
April 1954. Unclassified.

FUCHMLR, C.

"Tension of Axles With Key Grooves During Torsion." p. 84 (Strojirenstvi, Vol. 3, no. 2, Feb. 1953, Praha)

SO: Monthly List of East European Accessions, Vol. 3, no. 2, Library of Congress, Feb. 1954, Uncl.

O. PUCHNER

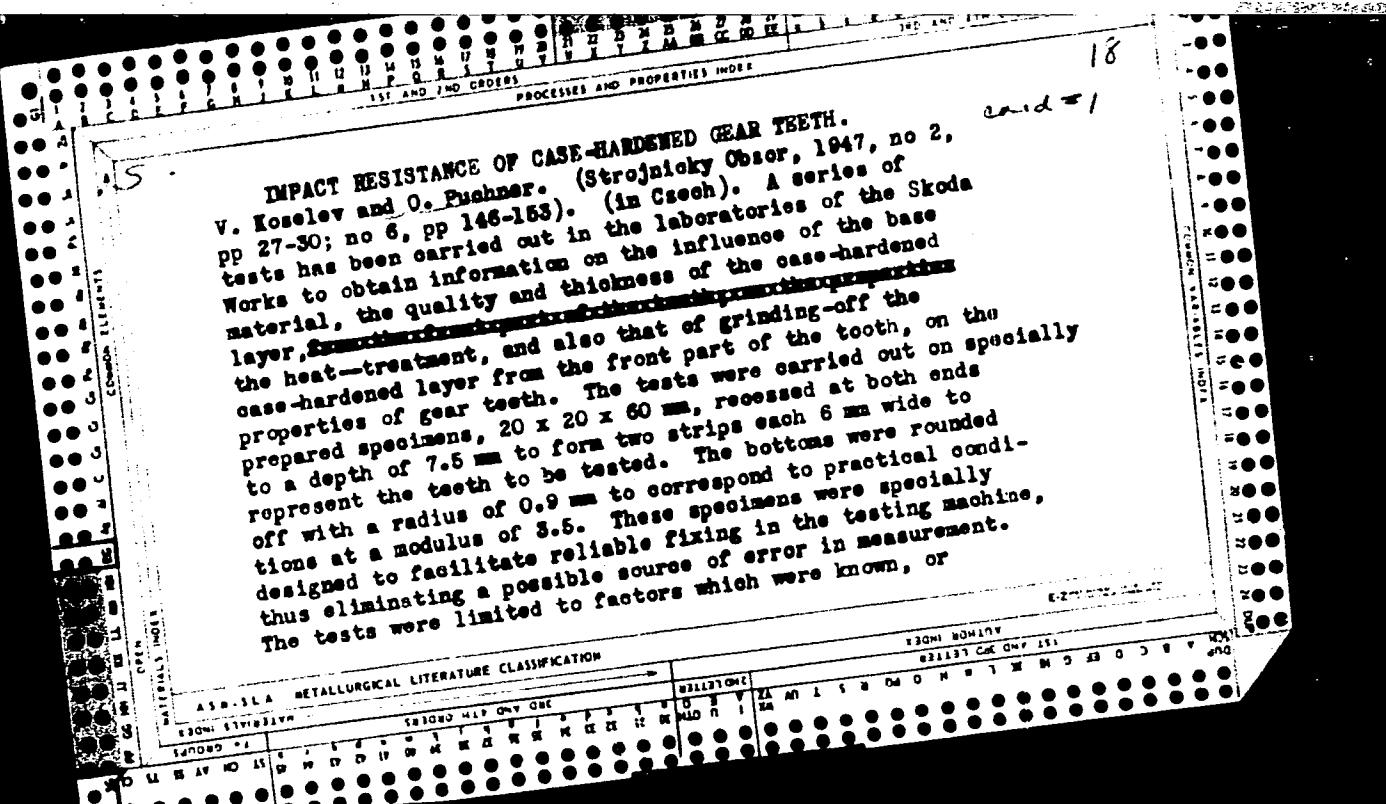
Journal of the Iron and
Steel Institute
July 1954
Properties and Tests

Some Notes on Fatigue in Grey Cast Irons. O. Puchner
(Slezské vědenné listy, 1953, 1, (7), 170-176). [In Czech]. The be-
haviour of cast irons under fatigue stresses in torsion, tension-
compression and bending is discussed with reference to the
metallurgical structure and the dimensions of the specimens.

PUCHNER, O.

"Strength of Angular Welded Joints of Automobile Frames." p. 277, Praha, Vol. 4, no. 4,
Apr. 1954.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress



considered very likely, to have a decisive influence on the strength of the teeth. Even so, it was necessary to prepare 216 specimens. The specimens were of three steels with the following compositions:

	C, %	Mn, %	Si, %	P, %	S, %	Cr, %	Ni, %
A ...	0.15	0.34	0.19	0.37	0.022	0.16	0.08
B ...	0.13	0.92	0.21	0.022	0.024	0.87	traces
C ...	0.24	1.24	0.20	0.026	0.022	1.35	0.13

The following heat-treatments were applied: (1) Tempering above Ac_1 of the case-hardened layer but below Ac_3 of the core material; (2) standard double tempering, once above Ac_3 of the core and a second time below Ac_1 ; and (3) tempering only once, above Ac_3 of the core. Most of them were quenched in oil, but water was also used. A series of specimens was quenched in a bath of molten salt at 140-200°C. The impact tests were carried out with a standard Izod machine. After the teeth of the specimens had been broken off, the structures and hardnesses of the core and hardened layer were determined, and the surface of the break was examined. The following conclusions were arrived at: The case-hardened layer should be as thin as possible, a depth of 10% of the tooth thickness being about the optimum

Z/0041/64/000/003/0306/0307

ACCESSION NR: AP4039261

AUTHOR: Puchnor, O. (Professor, Doctor of engineering, Doctor of technical sciences)

TITLE: Conference devoted to microplastic deformation and fatigue of metals

SOURCE: Strojnický časopis, no. 3, 1964, 306-307

TOPIC TAGS: metallurgical property, permanent set, plastic deformation, micro-plastic deformation, metal fatigue, material testing, material strength

ABSTRACT: The article is a report on a conference held on 20-21 November 1963 in Brno which was devoted to a discussion of microplastic deformation and fatigue of metals. Sixty-five persons from universities, research institutes and Czech industrial establishments attended. The conference was co-sponsored by the Metals Institute of Brno and State Research Institute for Materials and Technology, Prague. The primary purpose of the conference was to acquaint the Czech workers with the causes of fatigue in metals and to elucidate the basic factors influencing the fatigue strength of structural and machine components. P. Lukas (UVK, Brno), M. Holzmann(UVK, Brno), V. Linhart (SVUMT, Prague), E. Jelinek (SVUMT,

-Card 1/2

ACCESSION NR: AP4039261

Prague), V. Gregor (VUZ, Bratislava), O. Puchner (SVST, Bratislava), and S. Tesar (SVST, Bratislava) presented papers.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, IE

NO REF SOV: 000

OTHER: 000

Card 2/2

PUCHNER, Ondrej, prof., inz.dr., Dr.Sc.

Calculation of the fatigue strength of elements with residual
stress. Stroj. cas. 14 no.6:521-546 '63.

1. Slovenska vysoka skola technicka, Bratislava.

PUCHNER, Ondrej, prof., ins., dr., DrSc.

Fatigue limit calculation of welded parts with residual tensile
stress. Zvaranie 12 no.8:213-218 Ag'63

1. Slovenska vysoka skola technicka, Bratislava.

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343520016-6

PUCNIK, Janko, prof. (Ljubljana)

Slovenia in the light of some adverse natural phenomena.
Nova proizv 3/4:183-189 '64.

APPROVED FOR RELEASE: 06/15/2000

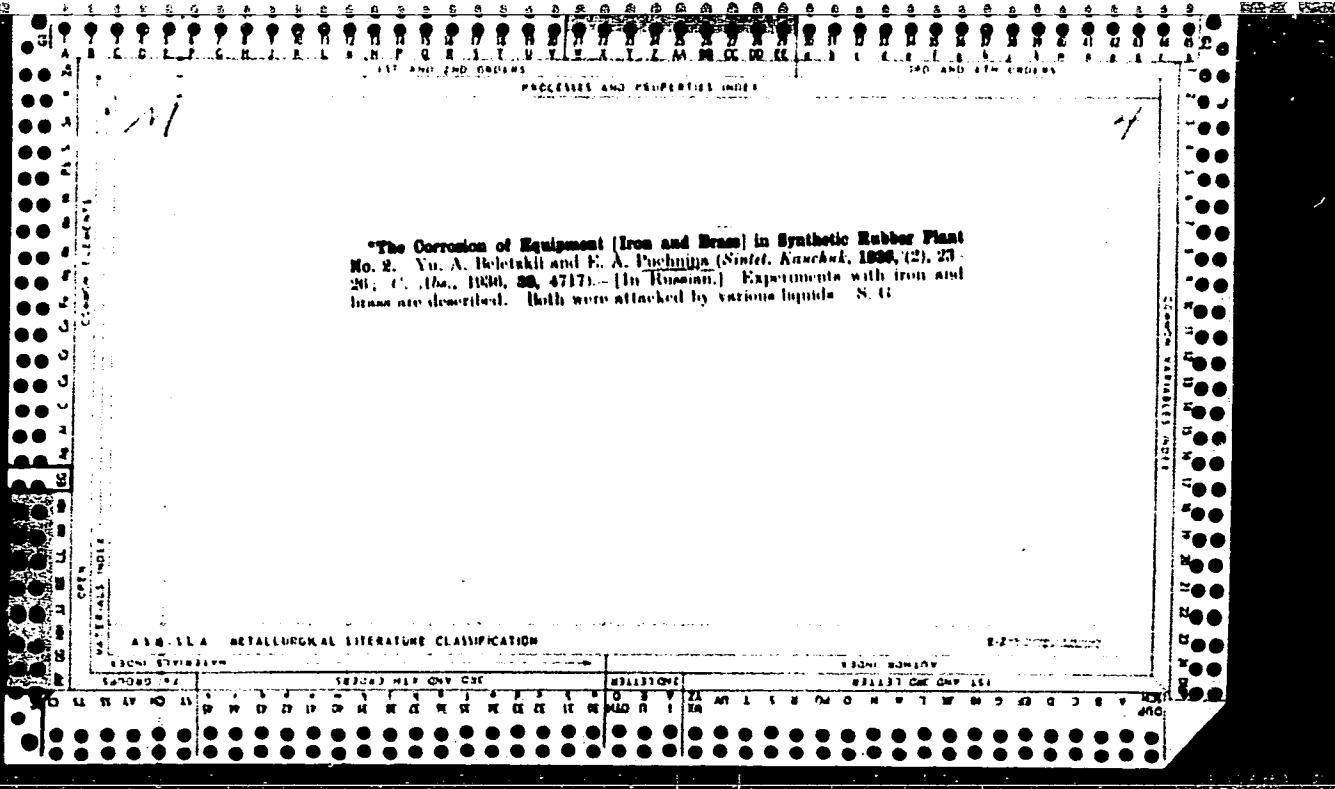
CIA-RDP86-00513R001343520016-6"

KHOKHLOVA, Yu.M.; PUCHNINA, A.V.; BLINOV, N.O.

Paper chromatography method in the study of heptane antibiotics No.s 2339 and 2789. Antibiotiki 8 no.5:417-422
My'63 (MIRA 17:3)

1. Institut mikrobiologii AN SSSR i Institut khimii prirodnykh soyedineniy AN SSSR.

(C) 30
The corrosion of equipment in synthetic-rubber plant
No. 2. Yu. A. Beletskii and E. A. Puchnina. *Sintet.*
Kauchuk 1936, No. 2, 23-6. Expts. with iron and brass
are described. Both metals were attacked by the various
liquids.
A. Pestoff



KROKHLOVA, Yu.N.; PUCHNINA, A.V.; ARTAMONOVA, O.I.

Chemical study of the main component of vitamycin. Biokhimia
29 no.5:841-845 Jl-Ag '64. (MIRA 18:11)

1. Institut mikrobiologii AN SSSR, Moskva.

MOSHCHANSKIY, N.A., doktor tekhn.nauk, prof.; PUCHNINA, Ye.A., nauchnyy sotrudnik

Protective plasters and paints for masonry work and concrete elements subjected to the action of hydrogen chloride. Trudy NIIZHB no.15:80-94 '60.
(Protective coatings) (Hydrochloric acid)

TIC U. H. N. N. A., YE. F.

PLATE I BOOK EXTRAMITATION

807/wsg1

Academy's structural test laboratory SERB. Institute between 1 the Laboratories

Corrosion's observations 1 stability reliability [Corrosion of Reinforced Concrete and

Methods of Protection] Author V. I. Novozhilov, Constructor; 1960, 131 P.

Series also inserted. (Series: Test Study, pp. 15/ 5,000 copies printed.

Mr.: V.M. Novozhilov, Corresponding Member, Academy of Building and Architecture

Sciences, Doctor of Technical Sciences, Professor; Ed. of Publishing House;

K.N. Kostyukov; Tech. Ed.; B.M. Klimchuk.

PURPOSE: This book is intended for scientific research workers and construction

engineers specializing in reinforced-concrete structures.

CONTENTS: The collection of 9 articles deals with corrosion processes which occur
in reinforced concrete and methods of combating them. Increasing the durability
of reinforced concrete through the use of admixtures of organosilicon compounds
or by using protective coatings with lacquers and enamel is analyzed. Ways of
averting deformations in reinforced concrete caused by frost are discussed. No
personalities are mentioned. References follow each article.X. Akhiezer, A.M. [Candidate of Technical Sciences]. Protection of
Manufacturing Parts Against Corrosion in Cellular Concrete 58

Barash, I.A. [Engineer], and V.A. Prival [Engineer]. Electro-

72

Corrosion in Reinforced Concrete

Bobylev, V.A. [Doctor of Technical Sciences, Professor], and

72

Methods of Protection of Reinforced Concrete 72

V.A. Bobylev, V.A. [Candidate of Technical Sciences]. Protection Paintings

80

and Coatings for Reinforced Concrete in a Hydrogen Chloride

Environment

80

Kondratenko, A.S. [Engineer]. Increasing the Stability of Fibre

95

Fiberglass Mats. M.M. [Candidate of Technical Sciences]. Protection

Coatings on the Basis of Bituminous Materials, Polyvinylchloride and

105

Portland Latices and Enamel

X. Matveev, V.M., and A.M. Pechkovskiy. Frost Resistance and the
Durability of the Unreinforced-Concrete Structures 110

AVAILABILITY: Library of Congress

Card 2/3.

JW/kew/sas

KALATUROV, B.A., kand.tekhn.nauk; PUCHNINA, Ye.A., inzh.

Precast containers made of prestressed reinforced concrete
panels to be used for storing agricultural products. Trudy
NIIZH no.3:236-267 '58. (MIRA 12:1)
(Precast concrete construction) (Containers--Testing)

PUCHL, J.

How should we fight fear? p. 161.
KNIHLA VLASTI, Praha, No. 7, Apr. 1955.

SO: Monthly List of East European Accessions, (SEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

PUCHL, J.

Puchl, J. How should we fight fear? p. 161. KRIDLA VLASTI. Praha.
No. 7, Apr. 1955.

SO: Monthly List of the East European Accession, (EEAL), LC. Vol. 4,
no. 10, Oct. 1955. Uncl.

PUCHL, Jiri

Prvni cesky letec Ing. Jan Kaspar. Z pocatku ceskeho letectvi v Pardubicich. (Ing. Jan Kaspar, the First Czech Pilot; Origins of the Czech Aeronautics in Pardubice) Pardubice, kraj. museum, 1957. 15 p. Vol. 1 of the series Prameny k dejinam Pardublickeho kraje (Sources to the History of Pardubice Region).

A brief biography of the two pioneers of the Cz. aeronautics, Ing. Jan Kaspar and his cousin Eugen Cihak.

Bibliograficky katalog, CSR, Ceske knihy, No. 34. 1 Oct 57. p. 744.

PUCHLEV, Al. dr.; POPOV, N. dr.; ASTRUG, A., dr.; DOTSCHEN, D., dr.;
PETRINSKA-WENKOWSKA, S. dr.

Endemic nephropathy in Bulgaria. Orv. hetil. 105 no.35:1642-1647
Ag 30 '64.

1. Szczial Belklinika (igazgato: Al. Puchlev dr.) es Korbonctani
Intezet (igazgato: B. Kardshiev dr.).

REINIS,Z.; FUCHMAYER,V.; SULC,M.; LOJDA,Z.; DUBEN,Z.

Role of the gonads in experimental arteriosclerosis in poultry.
Sborn. lek. 66 no.1:6-13 Ja'64

1. IV. interni klinika fakulty vseobecneho lekarstvi Univ.
Karlovy v Praze (prednosta: prof.dr. M.Fucik); Angiologicka
laborator fakulty vseobecneho lekarstvi University Karlovy
v Praze (vedouci:prof.dr. B.Prusik) a Vyzkumna laborator Ve-
terinarni spravy, Havlickuv Brod.

*

Detection of carbon monoxide in blood by infrared
photography. S. Schilling-Siengalewicz and B. Puhow-
ski. *Acta Biol. Expd.* (Warsaw) 11, 13-14 (1967). -
CO-hemoglobin is detected in stains by infrared photog-
raphy (8000 Å); the sensitivity of this method exceeds
that of others

B. C. P. A.

AMERICA METALLURGICAL LITERATURE CLASSIFICATION

FUCHNAR, B.

2036* Corrosion of Aluminum and Its Alloys. Korosé hliníka
a jeho alianc. (Czech.) B. Fuchnar. Strojírenstv., v. 5, no. 8,
Aug. 1955, p. 605-608. MG

Intercrystalline, spot, and uniform corrosion; effect of various
metals and electric current; corrosion caused by inorganic salts,
building materials, and impregnation preparations; criteria for
choice of materials in contact with Al parts. Tables, diagrams.

KUCHMAR, L.

Monel metal, its properties and use. p,10.
(HUTNIK, vol. 5, no. 1, Jan. 1955, Praha)

JO: Monthly List of East European Accessions, (EWAL). LC, Vol. 4, No. 11,
Nov. 1955, Uncl.

PUCHNAR, B.

Surface preparation of aluminum and its alloys for spot welding.
p. 382.

Reconstruction of a Kjellberg automaton. p. 383.

ZVARANIE Vol. 4, no. 12, Dec. 1955

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 7 July 1956

PUCIK, E.

Soft soldering without tin and soldering with a small tin content. p. 22.
(Zvaranie, Vol. 3, no. 1, Feb. 1954, Praha.)

SO: Monthly List of East European accession, (EEA), LC, Vol. 4,
No. 11, Nov. 1955, Uncl.

Puchnar, E.

Aluminum as a material for cans for preserving. p. 214. HUTNIK.
(Ministerstvo hutniho prumyslu a rudnych dolu) Praha. Vol. 4, no. 7,
July 1954.

Source: EEAL LC Vol. 5, No. 10 Oct. 1956

Puchnar, Bedrich

✓9488* Aluminum Bronzes: Their Properties and Uses. Hliníkové brony—jejich vlastnosti a použití. (Czech.) Bedřich Puchnar. *Hutník*, v. 5, no. 12, Dec. 1955, p. 362-368.

Effect of Ni, Mn, Fe, and other additions on mechanical properties. Properties of finished products. Weldability, castability, forgeability, and corrosion resistance. Tables, graphs, diagrams. 2 ref.

1
MIL

205 SPN

FUCHMAS, L.; FANTUJ, F.

The pneumatic starting of presses.

P. 220, (Strojirenska Vyroba) Vol. 5, no. 7, July, 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (SEAI) Vol. 6, No. 11 November 1957

PUCHNER, O., prof. inz. dr. DrSc.

Conference on the microscopic deformation and fatigue of
metals. Stroj cas 15 no. 3: 306-307 '64.

V. u. v. v. e. C.

Puchner, O.; Hostinsky, Z.

Puchner, O.; Hostinsky, Z. Design strength of cast crankshafts. p. 35.

Vol. 5, no. 2, Feb. 1957

SLEVARENSTVI
TECHNOLOGY
Czechoslovakia

So. East European Accessions, Vol. 6, May 1957
No. 5

PUCHNER, O. - Strojirenstvi - Vol. 5, no. 2, Feb. 1955.

Radial or tangential oil drains? p. 83.

SO: Monthly list of East European Accessions, (HEAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

PUCHNER, O.; MIL, S.

Measurements of a model of a friction press, p. 141.
(Zvaranie, Vol. 4, no. 5, May 1955, Praha.)

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4,
No. 11, Nov. 1955, Uncl.

ZVIRANIE, G. ; VYKNA, E.

Effect of joining with forged brackets on the durability of the frame of the automobile chassis. p.4.
(Zviranie, Vol. 3, no. 1, February 1954, Praha.)

SD: Monthly list of East European Accession, (EEAL), LC, Vol. 4,
No. 11, Nov. 1955, Uncl.

MOSHCHANSKIY, N.A., doktor tekhn. nauk prof.; PUCHNIN, Ye.A., mladshiy nauchnyy sotrudnik

Increasing the strength, solidity, and stability of lime-cement
mortars by adding silicon fluoride. Trudy VNIIZ
(Concrete--Testing)

PUCHNER, O.

Shall we produce welded crankshafts? p.2.
(Zvaranie, Vol. 6, No. 1, Jan. 1957, Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343520016-6

PUCHNER, O.

Fatigue of welded joints made of steels with a higher strength, p. 531.
(STROJIRENSTVI, Vol. 7, No. 9, Aug 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (REAL) LC, Vol. 6, No. 12, Dec 1957. Uncr.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343520016-6"

PUCHNER, O.

✓ Design Strength of Cast Crankshafts. O. Puchner and Z. Hostinský. (Slovrenat, 1857, 5, 35-58). Work on the Schenck-type test machine is described. Fatigue-strength tests on pearlitic annealed grey iron, annealed nodular iron, and graphitic steel with globular perlite, normalized. Designed strengths were 4 Kg/mm², 6 Kg/mm², and 4.5 Kg/mm² respectively.

- PUCHAR, C.; GREGOR, V.

PUCHAR, C.; GREGOR, V. Measurements of welded diagonal traces of the frame of transportation vehicles. p. 3.

Vol. 3, No. 1/2, 1954.

SVARACSKY SEORNÍK.

TECHNICKÝ

Bratislava, Czechoslovakia

See: East European Acquisitions, Vol. 5, No. 5, May 1956

128-2246
TODAY 1.

On the causes of collapse of a welded railroad bridge with a 13 m. span.
p. 280. SVARICK. ČERNÍK. (Slovenská akademie vied) Bratislava. Vol.
4, no. 2, 1955.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

177-112-1

Endurance limit of I girders welded by automatic welding and those
welded by hand. ZVIR MIE. (Ministerstvo hutachého prumyslu a rudných bani
a Ministerstvo strojárstva) Bratislava. Vol. 3, no. 11, Nov. 1954.

SOURCE: East European Accessions List, Vol. 5, no. 2, September 1956

PUCHNER, O.

Fatigue limit of beams welded automatically under flux. p. 184.

ZVARACSKY SEORNIK Vol. 4, no. 1, 1955

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 7 July 1956

PUCHNER, O.

Effect of flame straightening on the fatigue limit of edged C profiles.
p. 104.

ZVARANIE Vol. 5, no. 4, Apr. 1956

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 7 July 1956

PUCHNER, O.

PUCHNER, P. 2d Scientific Traffic Conference in Dresden. p. 276

Vol. 5, no. 8/9, Sept. 1956

ZVARANIE

TECHNOLOGY

Bratislava, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957

1954, 3.

Stability of welded frames of highway vehicles. p. 35.
(Zvaranie, Vol. 3, no. 1, Feb. 1954, Praha.)

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4,
No. 11, Nov. 1955, Uncl.

PUCHNER, O.

Strength of welded frames of highway vehicles. p. 441.
ZVARACSKY SBORNIK, Bratislava, Vol. 3, no. 3/4, 1954, (Svaracsy sbornik)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6,
June 1956, Uncl.

PUNCIER, C:

Tensiometers in the machinery industry. p. 47 (Strojnoelektrotechnicky Caso. is.
Pratislava. Vol. 3, no. 1, 1952)
SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6,
June 1955, Uncl.

Puchner, Ondrej;

3

13137* (Czech.) Effect of Flame Straightening on the Fatigue Limit of Edged C-Profiles. Vliv rovnání plamenem na mezní únavový hraněný profil C. Ondřej Puchner. Záchranné, v. 5, no. 1, Apr. 1956, p. 104-106.

Flame straightening of parts of automobile frames is tested to see whether the fatigue limit of the high-tensile steels is adversely affected.

✓
Puchner
1

VMK
M200

BLINOV, N. O.; OPARYSHEVA, Ye. F.; KHOKHLOVA, Yu. M.; YAKUBOV, G. Z.; PUCHNINA, A. V.;
FEDKINA, N. G.; KHRYASHCHEVA, K. M.; KHOKHLOV, A. S.

"Classification of antibiotics according to 'chromatographic spectra'."

report submitted for Antibiotics Cong, Prague, 15-19 Jun 64.

Inst for Chemistry of Natural Compounds, Inst of Microbiology, AS USSR, All-
Union Res Inst for Antibiotics, Moscow.

MOSCHANSKIY, N.A., doktor tekhn.nauk; PUCHNINA, Ye.A., mladshiy nauchnyy
sotrudnik

Resistance of mortars, porous concretes, and glass to effect of
gaseous hydrogen fluoride and hydrogen chloride. Trudy NIZHE no.2:
20-24 '58. (MIRA 11:9)
(Concrete--Testing) (Mortar--Testing) (Glass--Testing)

MOSHCHANSKIY, N.A., doktor tekhn.nauk; PUCHNINA, Ye.A., mladshiy naychnyy
sotrudnik

Testing protective concrete paints. Trudy NIIZHB no.2:101-112 '58.
(MIRA 11:9)
(Concrete coating---Testing)

PUCHNOV, A.F., Geroy Sotsialisticheskogo Truda; BRAVINSKIY, G.A., gornyy
inzh.

Using the UKB-3.6 boring machine unit for mining the upper part of
shafts in unstable formations and quicksand. Ugol' Ukr. 4 no.9:33-
34 S '60. (MIRA 13:10)

(Boring machinery)
(Shaft sinking)

SKVARCHENKO, V.R.; PUCHNOVA, V.A.; LEVINA, R.Ya.

Aromatic hydrocarbons. New synthesis of anthracenes. Dokl.AN
SSSR 145 no.4:831-833 Ag '62. (MIRA 15:7)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
Predstavлено академиком A.N.Nesmeyanovym.
(Anthracene)

5.3400

77349
SOV/79-30-1-10/78

AUTHORS: Skvarchenko, V. R., Chervoneva, L. A., Puchnova, V. A.,
Levina, R. Ya..

TITLE: Aromatic Hydrocarbons. XIV. The Reaction of Phosphorus
Pentoxide With Adducts of Dienes and 3,4-Dihydronaphthalene-1,2-dicarboxylic Acid

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 54-59
(USSR)

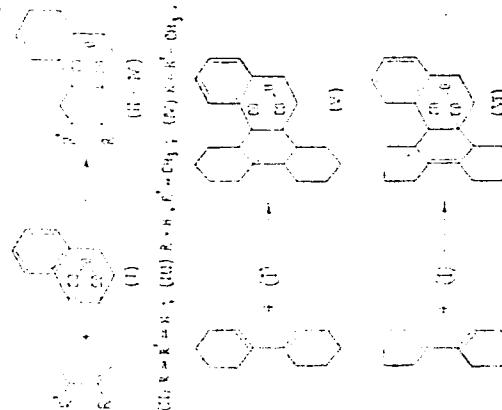
ABSTRACT: The following adducts of 3,4-dihydronaphthalene-1,2-dicarboxylic acid with butadiene, isoprene, and 2,3-dimethylbuta-1,3-diene were prepared: 1,4,9,10,11,12-hexahydrophenanthrene-11,12-dicarboxylic anhydride (II) (yield 40%), bp 160-170° (1 mm); 3-methyl-1,4,9,10,11,12-hexahydrophenanthrene-11,12-dicarboxylic anhydride (III) (yield 79.5%), mp 141-141.5° (not described in literature) and 2,3-dimethyl-1,4,9,10,11,12-hexahydrophenanthrene-11,12-dicarboxylic anhydride (IV) (yield 72%), mp 76-77°, respectively. Two adducts of 3,4-dihydronaphthalene-1,2-dicarboxylic anhydride

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Aromatic Hydrocarbons. XIV. The Reaction
of Phosphorus Pentoxide with Adducts of
Dienes and 3,4-Dihydronaphthalene-1,2-dicarboxylic Acid

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SOV/79-30-1-10/78

with bicyclic dienes were also prepared: compounds V
(yield 50%), mp 186-187° (not described in literature),
and VI (yield 85%), mp 164-165° (not described in
literature).

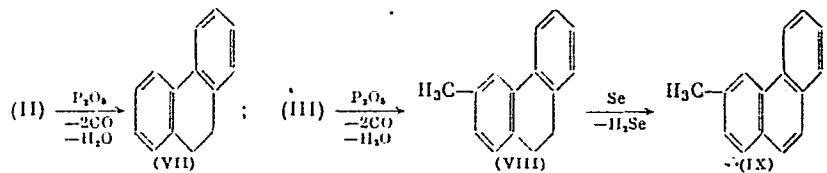


Card 2/6

Aromatic Hydrocarbons. XIV. The Reaction
of Phosphorus Pentoxide With Adducts of
Dienes and 3,4-Dihydronaphthalene-1,2-
dicarboxylic Acid

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The reaction of P_2O_5 with adduct II at gradually rising temperature, from 200 to 300° , yields compound VII (yield 72%), mp $33\text{-}34.5^\circ$. Heating of P_2O_5 with compound III at $200\text{-}320^\circ$ yields compound VIII (yield 69%), bp $167\text{-}168^\circ$ (9 mm), n_D^{20} 1.6309.

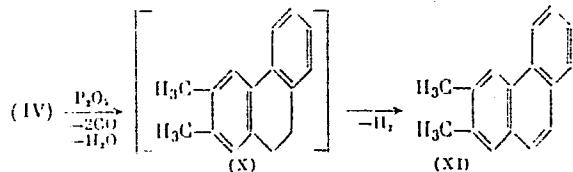


Heating of P_2O_5 with compound IV at $250\text{-}350^\circ$ for 6 hr yielded compound XI (yield 39%), mp $79\text{-}80^\circ$, instead of expected compound X.

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Aromatic Hydrocarbons. XIV. The Reaction
of Phosphorus Pentoxide With Adducts of
Dienes and 3,4-Dihydronaphthalene-1,2-
dicarboxylic Acid

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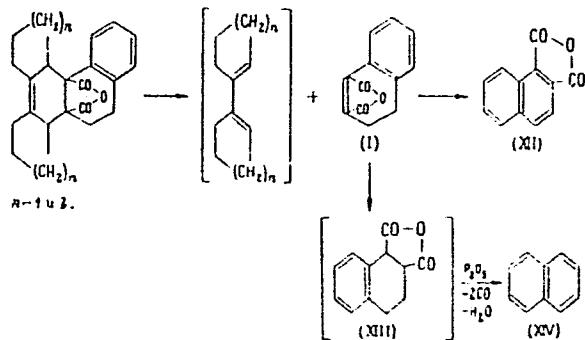
The adducts V and VI are stable toward P_2O_5 ; heating at $300\text{--}400^\circ$ for 10 hr resulted only in formation of naphthalene-1,2-dicarboxylic anhydride (XII) and naphthalene instead of the expected phenanthrenes. This is explained by the decomposition of adducts into starting diene and dienophile at high temperature. The dienophile, 3,4-dihydronaphthalene-1,2-dicarboxylic anhydride, is converted into a mixture of naphthalene-1,2-dicarboxylic anhydride (XII) and 1,2,3,4-tetrahydro-naphthalene-1,2-dicarboxylic anhydride (XIII). The

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Aromatic Hydrocarbons. XIV. The Reaction
of Phosphorus Pentoxide With Adducts of
Dienes and 3,4-Dihydronaphthalene-1,2-
dicarboxylic Acid

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latter, under the action of P_2O_5 , eliminates carbon monoxide and water and becomes converted into naphthalene (the second reaction product).



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Aromatic Hydrocarbons. XIV. The Reaction
of Phosphorus Pentoxide With Adducts of
Dienes and 3,4-Dihydronaphthalene-1,2-
dicarboxylic Acid

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There are 16 references, 6 Soviet, 4 U.S., 4 U.K., 2 German. The 5 most recent U.S. and U.K. references are: Fieser, L. F., Herschberg, E. B., J. Am. Chem. Soc., 57, 2192 (1935); Fieser, L. F., Herschberg, E. B., J. Am. Chem. Soc., 57, 1508 (1935); Askew, F. A., J. Chem. Soc., 1935, 512; Francis, F., Collins, F. J. E., J. Chem. Soc., 1936, 137; Fieser, L. F., Herschberg, E. B., J. Am. Chem. Soc.

ASSOCIATION: Moscow State University (Moskovskiy gosudarstvennyy universitet)

SUBMITTED: January 22, 1959

Card 6/6

L 17947-65 EWT(m)/EPF(c)/EWP(j) PC-4/Pr-4 RM
ACCESSION NR: AP5002559 S/0079/64/034/007/2210/2213

AUTHOR: Skvarchenko, V. R.; Puchnova, V. A.; Levina, R. Ya.

TITLE: Aromatic hydrocarbons. XXX. p-bromophenyltetrahydropthalic anhydrides and p-bromobenzyltetrahydrobenzoic acids in the reaction with phosphorous pentoxide

SOURCE: Zhurnal obshchey khimii, v. 34, no. 7, 1964, 2210-2213

TOPIC TAGS: brominated organic compound, aromatic hydrocarbon, phosphorus compound, anhydride

Abstract: The behavior of 3-(p-bromophenyl)-1,2,3,6-tetrahydropthalic anhydride, the adduct of 1-(p-bromophenyl) butadiene-1,3 with maleic anhydride, and 2-(p-bromobenzyl)-1,2,3,6-tetrahydrobenzoic acid, as well as the adduct of butadiene-1,3 with p-bromobenzoylacrylic acid, reduced at the carbonyl group, was studied in the reaction of heating with phosphorous pentoxide. These adducts do not undergo the usual reactions for compounds of such structure, but those not containing bromine did undergo intramolecular acylation, followed by aromatization to the corresponding diphenylene-1,2,3,6-tetrahydropthalic anhydride was found to be aromatized under these conditions (splitting off carbon monoxide and water) and converted to

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L 17947-65
ACCESSION NR: AP5002559

4-bromodiphenyl. 2-(p-Bromobenzyl)-1,2,3,4-tetrahydrobenzoic acid, when heated with toluene and phosphorous pentoxide and sulfur, entered into intermolecular acylation of toluene, followed by conversion of the intermediate hydroaromatic ketone to 2-bromo-9-p-tolylanthracene. Orig. art. has 5 formulas.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University)

SUBMITTED: 11Jun63

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 004

OTHER: 009

JPRS

Card 2/2

PUCHOLT, V.

Soil classification and operational soil maps in the Georgian SSR. p. 113.
(GEODETICKY A KARTOGRAFICKY OBZOR, Vol. 3, No. 6, June 1957, Praha,
Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

PUCHOVAN, J.

A jewel of our folk creativeness, the village of Vychodna. p. 420

KRASY SLOVENSKA No. 11, Nov. 1955

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 7, July 1956

PUCHOWSKI, Bronislaw

Air embolism related to fallopian tube insufflation. Gin.polska
Jl no.1:59-64 Ja-F '60.

1. Z Zakladu Medycyny Sadowej A.M. w Lodzi. Kierownik: prof.
B. Puchowski.

(EMBOLISM etiol.)
(FALLOPIAN TUBES)
(STERILITY FEMALE ther.)

PUCHOWSKI, Bronislaw

What every qualified health service worker should know about sobriety testing. Polski tygod. lek. 13 no.21:806-810 26 May 58.

1. (Z Zakladu Medycyny Sadowej A. M. w Lodzi: kierownik Zakladu: prof. B. Puchowski). Adres: Lodz, ul. Narutowicza 60 Wydz. Lekarski A. M. Zaklad Med. Sadowej.

(ALCOHOLIC INTOXICATION, diag.
sobriety tests, types & technics (Pol))

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343520016-6

NEWMIS, .. F.; PUDCHIK, A. T.; USIK, V. A.

"Investigations of Low-Lying States of Silicon-28 Excited in the Reaction
 $\alpha^{27}_{\text{Al}}(\alpha, t)\text{Si}^{28}$."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22
Feb 64.

IF, AN UkrSSR (Inst Physics, AS UkrSSR)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001343520016-6"

SVOBODA, M.; PUCHTA, V.

skiabaryum and intestinal peristalsis. Cesk. rentgen. 17 no.2:
124-127 Mr '63.

l. Ustav hematologie a krevni transfuze v Praze, reditel prof. dr.
J. Horejsi, DrSc.
(INTESTINE SMALL) (BARIUM SULFATE)

SVOBODA, M.; FUCHTA, V.

To test or not to test contrast media? Cas. lek. Cesk. 104 no.45:
Lek. ved. zahr. 11:207-210 12 N '65.

1. Ustav hematologie a krevni transfuze v Praze (reditel prof.
dr. J. Horejsi, DrSc.).

PUCHTA, V.

- 245
- Berlin-Die demokratische Deutschland, Vol. 17, No. 15, 12 APR 82
[Summary of a questionnaire received from a Berliner Doctor at
Vierteljahr für V. (Part) of the Central Club of the Hospital on Berlin
Borsigstrasse (Moskauer Strasse 11), Berlin-West-Berlin, pp 521-525].
2. Personalities, Institutions and the Complications. "Under Physician's
Signature, Dr. med. [redacted], Berlin (West-Berlin) pp 521-525.
3. Personalities, Institutions and the Complications. "Under Physician's
Signature, Dr. med. [redacted], Berlin (West-Berlin) pp 521-525.
4. Comparative Study of Tocopherol Effects of 4- and 8-Isopropenyl-
In-Der-Oral Olivenöl Emulsion", Prof. Dr. H. J. KÜHN and Dr.
HANS-J. WILHELM, Institut für Organische Chemie und
Technik, Prof. Dr. H. J. KÜHN and K. FRÖHLICH, Institut für Organische
Chemie und Technik, Universität des Saarlandes, the National Institute
of Drug Standards (Gesellschaft für Biologische Prüfung und Kontrolle
des Instituts für Pharmakologie und Toxikologie und des Instituts
of Charité University (Freie Universität), the Institution in Ern. Reihe: Address of
the Division of the Medical Hospital in Ern. Reihe: Address of
members of Prof. Dr. H. KÜHN, Akademie der Wissenschaften
der DDR, pp 525-527.
5. Female Reproductive System in the Case of Small-Pox Vaccination.
"Obstetrics in Special Community Services", DR. MED. GERTH O. H.,
Obstetrics 20, and OBSTETRIC SURG., Berlin-West-Berlin, Robert-Koch-Institut
both of the Institute for Hygiene and Epidemiology, Vaccination Berlin (Lep-
rosarium, Friedrichstr. 3, Berlin), pp 527-528.
6. Frequency of Blood Group Type A (With and Without) at Low
Hemoglobin Blood Groups in the Population of Ankara, C. GÖK-
YILMAZ and DR. K. TÜRKEL of the Faculty of Medicine, Ankara Medical
Academy in Ankara (Prof. DR. K. TÜRKEL), pp 529-530.
7. Further Contribution to the Distribution of Baffordola Group
Types in the Islamic Republic of Iran. "Diploma Seminar in O. KARIMI IN
Institute of Organic Chemical Process Technology of the IRIH in
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Medical Institute, Islamic Q. Research Institute 151 and O. KARIMI

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SVOBODA, M.; PUCHTA, V.; JIRICKA, Z.

Early tolerance to acetrizoate and diatrizoate. (Experimental study).
Cas. lek. cesk. 104 no.31:840-844 30 Jl '65.

1. Ustav hematologie a krevni transfuze v Praze (reditel prof.
dr. J. Horejsi, DrSc.) a Farmakologicky ustav Ceskoslovenska
akademie ved v Praze (reditel prof. dr. H. Raskova, DrSc.).

SVOBODA, M.; PUCHTA, Vl.

On tolerance of aqueous iodine contrast substances. Cesk. rentgen,
17 no. 2:104-107 Mr '63.

1. Ustav hematologie a krevni transfuze v Praze, reditel prof. dr.

J. Horejsi, DrSc.

(IODIZED OILS) (IODOPYRACET) (IODIPAMIDE)
(IOPANOIC ACID) (IPODATE)

DVORAK, Ladislav; JIRANKOVA, Jarmila; KAPITOLA, Jiri; technicka spoluprace:
PUCHYNGEROVA, J.

Thyrotoxic cardiopathy. -II. Hemodynamic study; Acta univ. carol.
[med.] no.7:867-877 '61.

1. III. interni klinika fakulty vseobecneho lakarstvi University
Karlovy v Praze, prednosta akademik J. Charvat;
(HYPERTHYROIDISM physiol) (CARDIOVASCULAR SYSTEM physiol)

DVORAK, L.; JIRANKOVA, J.; techn. spoluprace PUCHYNGEROVA, J.

Circulation time in hyperthyroidism. Sborn. lek. 63 no.4:115-123
Ap '61.

1. III. interni klinika fakulty vseobecneho lekarstvi University
Karlovych v Praze, prednosta akademik J. Charvat.
(HYPERTHYROIDISM physiol) (BLOOD CIRCULATION)

PUCIK, Jozef, inz.

Tenth anniversary of the Chair of Petroleum Chemistry and
Technology at the Slovak Higher School of Technology in
Bratislava. Ropa a uhlie 5 no.8:225 Ag'63

1. Minister chemickeho priemyslu.

PUCIK, J.

Institute of Packaging is an authorized agency for testing
transportation containers. Prum potravin 16 no.1:3 Ja '65.

1. Minister of the Chemical Industry, Prague.

PUCIK, Josef, inz.

Contribution of the chemical industry in the third Five-Year Plan.
Nova technika no. 3:97-99 Mr '60.

1. Ministr chemickeho prumyslu.

CZ/4-60-3-2/44

AUTHOR: Púčík, Josef, Engineer, Minister for Chemical Industry
TITLE: The Chemical Industry During the Third Five-Year Plan.
PERIODICAL: Nová Technika, 1960, No. 3, pp. 97 - 99

ABSTRACT: The author deals with the directives of the Ústřední výbor KSC (Central Committee of KSC) and the Government on the Third Five-Year Plan, in the course of which the chemical industry should increase its production by 86%, the productivity of work by 62%, and decrease the net costs by 12% compared to 1960. Chemical fertilizers and plant protectives should make it possible to raise the agricultural productive capacity from 80 kg per hectare in 1958 to 175 kg per hectare by 1965. The entire demand of fertilizers and plant protectives should be covered by 1961. In 1965, a total of 184,000 t of plastic materials should be produced; this means a four-fold increase compared to the output in 1960. About 100,000 tons of nonferrous metals should be replaced by plastic materials. The assortment of plastic products should be extended; in addition to phenoplasts, aminoplasts, coating materials, polyamides, polymethacrylates, polyvinyl chlorides, the production of polyethylene, polystyrene, fluoroplast, vinyl acetate and its

Card 1/2

The Chemical Industry During the Third Five-Year Plan.

CZ/4-60-3-2/44

polymers, of silicon, polyurethan etc. should be introduced. The start of the synthetic rubber production will help to save several hundred million Kčs. More than 105,000 tons of synthetic fibers, i.e. silon fibers, should be manufactured. In spite of the planned intensification of the paper and cellulose production, the industrial output will not cover the increased demand. In the chemical processing of coal (e.g. gasification, coking, carbonization, hydrogenation) various types of liquid fuel and chemical raw materials are obtained, among others tar, benzole, sulphur, phenol, naphtalene, hydrocarbon gases etc, which are used as basic materials in the chemical industry. The USSR supplies the crude oil required. The railroad freight traffic will partly be replaced by motor vehicle freight traffic; the share of railroad diesel engines should be increased from 2.8% in 1955 to 24% by 1965.

Card 2/2

PuCLK, Otokar

A design for further development of road transportation. Doprava
no. 1:22-26 '64.

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JAKIMOWICZ, Wladyslaw; BANACHOWSKA, F., (Gdansk); DOBROWOLSKA, B. J.;
GOLDSZTAJN, M., (Krakow); CZARSKI, Z., (Lublin); KUBERSKI, Z.;
SULAT, H.; SZULC, J., (Lodz); ZIEPKIEWICZ, W.; SIEDEL-
KOLODZIEJOWA, A., (Poznan); MICHALOWICZ, R., (Szczecin);
DOWGIALLO, M.; PUCILOWSKA, K., (Warszawa); GAJ, J., (Wroclaw);
CHLOPICKI, Wl., (Zabrze).

Diagnostic statistics from neurological clinics during 1953.
Neur. &c. polska 6 no.4:479-486 July-Aug 56.

(NERVOUS SYSTEM, dis.
diag. statist. (Pol))

EMERYK, B.; KAMIENIECKA, Z.; PUCILOWSKA, K.

Anti-edema procedures in brain strokes. Neurologia etc. polska 11
no.5:621-624 '61.

1. Z Kliniki Chorob Nerwowych AM w Warszawie Kierownik Kliniki: prof.
dr I. Hausmanowa-Petrusewicz.
(CEREBROVASCULAR DISORDERS ther)

DOWGIALLO, Maria; PUCILOWSKA, Krystyna; PAWLAK, Zdzislaw

2 cases of trichinosis of the central nervous system.
Neurol. neurochir. Psychiat. pol. 13 no.3:369-371 '63.

1. Z Oddzialu Neurologicznego Wojskowego Instytutu Medycyny
Lotniczej w Warszawie.
(TRICHINOSIS) (BRAIN DISEASES)

AZUSIENIS, A.; JASEVICIUS, V.; JUODOKAS, A.; JUSKA, A.; MASNAUSKAS, J.:
PUCINSKAS, A.; STRAIZYS, V.; ZDANAVICIUS, K.; ZITKEVICIUS, V.;
SLAVENAS, P., prof., red.; PARREZIENE, A., red.; CECYTE, V.,
tekhn. red.

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tines ir mokslynes literaturos leidykla, 1961. 113 p.
(MIRA 15:3)

(Constellations)

PUCKOV, P. V.

"Hydrogenation du methylcyclohexane sous pression de l'hydrogene." Puckov, P. V. et
Nikolaeva, A. F. (p. 1166)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1938, Vol. 8, No. 12

PUCNIK, J.

✓ 9.10-36

International Commission for the Study of Clouds, *Skrajšani mednarodni atlas oblakov in mednarodni ključ oblakov*. [International atlas of clouds and of types of skies.] Ed. by Janko Pučnik. Ljubljana, Uprava Hidromet. Sluzbe LR Slovenije, 1952. 66 p. figs., 41 plates (part cof. in pocket), 5 refs. DLC (QC921.1538)—An abridged form of the International Cloud Atlas, with text in Slovenian and an introduction by Pučnik giving brief history of cloud atlas down to the Washington Conference of 1947. Subject Headings: 1. Cloud atlases 2. Slovenian language 3. Translations. I. Pučnik, Janko (ed.).—M.R.

551.576.1:912

2

HUNGARY

HARMOS, G., PUCSOK, J., ROMICS, L., CSEMI, A., and SOS, J., of the Institute of Pathophysiology of the Medical University, Budapest [Original version not given].

"Histochemistry of Dietary Cardiac Lesions"

Budapest, Acta Physiologica Academiae Scientiarum Hungaricae. Supplement to Vol 22, 1963; p 15.

Abstract [Authors' English summary]: To exert a dietary influence on cardiac metabolism, an atherogenic diet (S-60) and a cardiopathogenic diet (S-65) were fed. The succinic dehydrogenase, ATPase, alkaline phosphatase and PAS reactions, the methylene blue extinction (at pH 2.62) and the SH content of the heart and the coronaries were studied. Under the experimental conditions employed dietary factors produced profound metabolic changes in the heart and the coronaries. These were demonstrated histochemically earlier and more sensitively than by the usual histological techniques.

1/1

RIGO, Janos; PUCSOK, Jozsef

The effect of prednisolone on the osmotic resistance of leukocyte.
Kiserl. orvostud. 14 no.6:624-627 D '62.

1. Budapesti Orvostudomanyi Egyetem Korelettani Intezete.
(PREDNISOLONE) (LEUKOCYTES) (OSMOSIS)

L 15507-66

ACC NR: AT6007480

SOURCE CODE: HU/2505/65/026/00X/0067/0068
19 B+1

AUTHOR: Pucsok, J.; Harmos, G.; Gyenge, K.; Csemi, A.

ORG: Institute of Pathophysiology, Medical University of Budapest (Budapesti Orvostudomanyi Egyetem, Korelettani Intezet)

TITLE: Method for the study of bone marrow cells present in small numbers. This paper was presented at the 29th Meeting of the Hungarian Physiological Society held in Szeged from 2 to 4 July 1967

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 26, Supplement, 1965, 67-68

TOPIC TAGS: bone marrow, biochemistry, cytology

ABSTRACT: Because it is difficult to examine the properties of single types of cell in the bone marrow, a method of isolation based on the difference in sedimentation rates of the cells has been developed which employs a modification of DAVIDSON's method. Bone marrow is suspended in the plasma of the individual animal and is centrifuged in a plastic tube. When the percentage distribution of the cells has been determined prior to centrifuging in bone marrow smears, the quantity of the bone marrow is sufficient and the length of the tube is adequate, the section of the tube which contains the type of cells sought can be cut out with a high degree of certainty. Under the experimental conditions employed, the method was found to be well suited for the enrichment of single cell types.

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L 15507-66.

ACC NR: AT6007480

In the smears made of such fractions, the cells are morphologically intact and they are suited for use in cytochemical tests. The sections of the tube contain sufficient quantities of the individual types of cell for the performance of certain biochemical tests. [JPRS] O

SUB CODE: 06 / SUBM DATE: none

Card 2/2

PUBLIC

ALU, János; PLCSOK, József; Medical University of Budapest, Pathophysiological Institute (Budapesti Orvostudományi Egyetem Korelettani Intézet)

"The Effect of Prednisolon on the Osmotic Resistance of Leucocytes."

Budapest, Magyarország Orvostudomány, Vol XIV, No 6, 1962, pp 624-627.

Abstract: [Authors' summary] The effect of prednisolon on the osmotic resistance of leucocytes was investigated. The osmotic resistance of both the poly- and mononuclear elements is increased by the effect of 250 gamma per kg prednisolon. The mechanism is explained partly by the disappearance of the older cells from circulation and appearance of younger ones, partly by the in vitro effect of prednisolon.

[In Western, 7 Soviet-bloc references]

HARMOS, Gyorgy; VARGA, Bertalan; RIGO, Janos; DOKLEN, Anna; PUCSOK, Jozsef;
SOS, Jozsef

Effect of tryptophan on the activity of alkaline phosphatases in granulo-
cytes. Kiserl. orvostud. 13 no.6:579-582 D '61.

1. Budapesti Orvostudomanyi Egyetem Korelettani Intezete.

(TRYPTOPHAN pharmacol) (PHOSPHATASES blood)
(LEUKOCYTES metab)

HUNGARY

SELMECI, Laszlo, HARMOS, Gyorgy (deceased), GATI, Tibor, PUSOK, Jozsef, and ZELLES, Tivadar, of the Institute of Pathological Physiology (Koreletti Intezet) of the College of Medicine, Budapest (EOTE = Budapesti Orvostudomanyi Egyesum) and the Institute for Gerontological Research (Gerontologiai Kutato Intezet) of the National Institute on Rheumatism and Curative Spas (ORFI = Orszagos Reuma- és Furdoegyi Intezet), Budapest.

"Inhibition of the Effect of Serotonin (5-HT) in Isolated Organs, By Means of Diazo Compounds"

Budapest, Kiserletes Orvostudomany, Vol 18, No 6, 1966; pp 604-607.

Abstract: By means of diazonium salts containing no stabilizing agent the effect of serotonin was eliminated in isolated stomach-fundus preparation and uterus of rats. The inhibition is based on the transformation of 5-HT into an azo dye. On the basis of their specificity and reversibility observed under the experimental conditions, the diazonium salts may be used for antagonizing the effect of 5-HT in the titration of the acetylcholine- and oxytocin content of experimental material which also contains 5-HT. ? References, of which 2 Hungarian, rest Western. Manuscript received 29 Dec 65.

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